

Customer Specification

PART NO. M3880

Construction

		Diameters (In)			
1) Component 1		24 X 1 COND			
a) Conductor		12 (7/.0305) AWG BC		0.092	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.134	
(1) Color Code		Alpha Wire Color Code J			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	9	ORANGE/BLACK	17	BLACK/BLUE
2	RED	10	YELLOW/BLACK	18	RED/BLUE
3	BLUE	11	BROWN/BLACK	19	ORANGE/BLUE
4	ORANGE	12	BLACK/RED	20	YELLOW/BLUE
5	YELLOW	13	BLUE/RED	21	BROWN/BLUE
6	BROWN	14	ORANGE/RED	22	BLACK/ORANGE
7	RED/BLACK	15	YELLOW/RED	23	RED/ORANGE
8	BLUE/BLACK	16	BROWN/RED	24	BLUE/ORANGE
2) Cable Assembly		24 Components Cabled			
a) Twists:		1.0 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Jacket		0.083" Wall, Nom.,PVC		0.957 (0.996 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M3880 24C 12 AWG EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET SUN RES DIR BUR CE ROHS * = Factory Code			

Applicable Specifications

1) UL	TC	90°C / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	
2) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
2) REACH Regulation (EC 1907/2006):	
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration.
3) California Proposition 65:	
	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	1227 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Capacitance	34 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.16 µH/ft, Nominal
4) Conductor DCR	1.64 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	48 x 26 x 18 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	24 x 14 x 12 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M3880

M3880 , RoHS-Compliant Commencing With 1/1/2006 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item.** It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) , Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

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